

Caleb J. Overman

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INTERESTS: Unmanned aerial vehicles, robotic path planning, and autonomous navigation.

EMPLOYMENT

Carnegie Mellon University Robotics Institute, *Pittsburgh, PA*

Undergraduate Researcher, *May 2006-Present*

- Developed target prediction and tracking system for unmanned aerial vehicles
- Implemented probability, GPS, occlusion modeling components in C
- Analyzed and interpreted field data in Matlab
- Preparing paper for submission to the 2007 IEEE Computer Vision and Pattern Recognition Conference

Teacher's Assistant, Introduction to Robotics, *January 2006-May 2006*

- Created introductory lab on basic mobile robot design
- Assisted in labs covering: computer vision, motion planning, sensing and obstacle avoidance, and forward/inverse kinematics
- Held weekly lab hours to help students in all aspects of the course

Undergraduate Researcher, *May 2005-August 2005*

- Research focusing on policy optimization for bipedal robotics
- Implemented various dynamic programming algorithms on software models
- Created graphical analysis of robot's walk using OpenGL

Time Warner Cable, *Kansas City, MO*

Information Systems Intern, *May 2004-July 2004*

- Maintain software and hardware for company wide network consisting of 500+ machines
- Managed database of current users email address and network permissions

EDUCATION

Carnegie Mellon University, Bachelor of Science in Discrete Mathematics and Logic, expected graduation May 2007

Coursework:

*Algorithms	Number Theory	Combinatorics
*Computational Discrete Math	Algebraic Structures	Linear Algebra
Graph Theory	Probability Theory	* Fall 2006

QUALIFICATIONS

- **Programming Languages** - C/C++, Java, SML, HTML
- **Operating Systems** - Mac OS X, Unix, Linux, Windows 95-XP
- **Software** - Matlab, Mathematica, Maple, Microsoft Office Suite

Leadership:

Labor Day Barbeque Co-Chair

- Co-organized barbeque for approximately 2000 students
- Negotiated and wrote contract for a band to perform at the event
- Secured funds, advertised, purchased supplies, and managed event workers

Greek Life Strategic Plan Committee

- Created outline of university's Greek life for the next 10 years
- Led discussion on risk management issues
- Presented issues to committee for inclusion into report to the university's Board of Trustees

Fraternity Standards Board

- Responsible for upholding the bylaws of the fraternity
- Organize and run ritual activities
- Helped create scholarship for brothers with financial needs